





Review of Higgs Physics in ILD-DBD

- primary goals of ILC Higgs physics
 - Determination of Absolute Higgs Couplings (bottom-up approach)
 - Test the Mechanism of Electroweak Symmetry Breaking and Mass Generation
- framework of ILD simulation in DBD
 - Mokka and Marlin (GEANT4 based, with Whizard as Generator)
 - Detailed consideration (Beam spread, ISR, γγ-low-pt BG)
 - Key Algorithms (Particle Flow, Flavor Tagging, Isolated-Lepton Selection)
- precision measurement @ 250 GeV as a Higgs factory
 - Recoil mass and Quantum numbers
 - Total width and Couplings
- physics opportunities @ 500 GeV and 1 TeV
 - production through WW-fusion
 - Top-Yukawa coupling
 - Trilinear Higgs self-coupling

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